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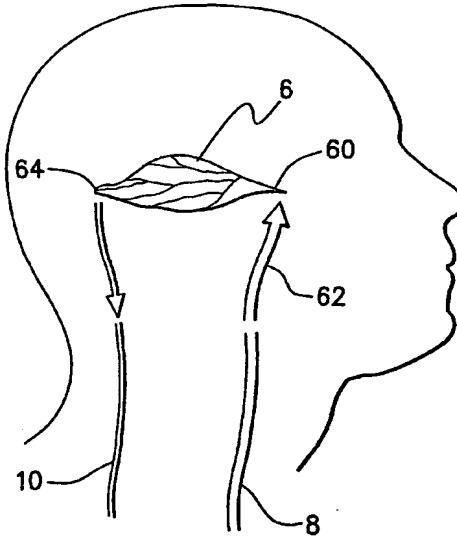
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(54) Title: METHOD AND SYSTEM OF OBTAINING IMPROVED DATA IN PERFUSION MEASUREMENTS



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(57) **Abstract:** A method of deriving blood perfusion indices for a region of interest (ROI) of a subject, comprising the steps of administering a contrast agent to the subject during a dynamic imaging scan, converting signal intensity data from raw images of the scan into contrast agent concentration data, deriving parameters from the contrast agent concentration data using at least one transport function that accounts for delay and dispersion of the contrast agent, and calculating the blood perfusion indices from the derived parameters.

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